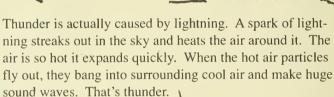


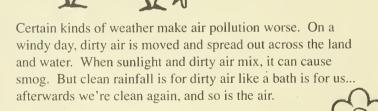
WEATHER AND AIR

Warm air can hold more water than cold air. Rain occurs when tiny drops of water in warm air gather until they become too heavy and fall to the ground.

When we're in cold air our hair muscles contract. Each hair muscle is pulled up giving our skin that "goose-bump" look. This creates tiny pockets of air, which help warm us up. Birds use the same kind of muscles to fluff up their feathers in cold weather. Their muscles work a lot better than ours do.



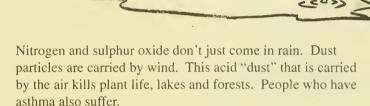




Acid rain is formed when two gases, sulphur dioxide and nitrogen oxide, mix with moisture and air. Sulphur dioxide is created by power plants and metal smelter factories. Nitrogen oxide comes from vehicle emissions and from home heating systems that use natural gas.

The amount of acid in rain can be measured. A special scale monitors the level of acid in water to show how much sulphur and nitrogen oxides are present. For example, a pH measure of 7 means clean lake water: no sulphur and nitrogen oxide are

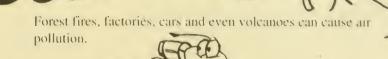
present.



POLLUTION AND AIR

Nitrogen oxide can destroy large forests by damaging the leaves on trees and their roots that grow in soil. Damaged leaves need more food to stay alive. Without healthy soil, the roots can't get food to the leaves, and the tree dies.

Ozone is a gas high in the atmosphere which protects you from too much sunlight. A group of chemicals called chloroflurocarbons (CFC) destroys the ozone layer. Often, CFCs are used to help make the spray come out of hairspray and deodorant spray cans. They are also used in making plastic foam. However, many spray cans are now made without CFC. The label will tell you whether it contains CFCs.



The amount of air pollution can be measured just like temperature. It's called an "Air Quality Index" or AQI for short. The cleanest air has an AQI of 0-15. But, if it reads 100, watch out! Being outside when the AQI is 100 is like standing behind a bus all day! You can't measure AQI with a thermometer. A complex machine is required instead. Environment Ontario has these machines placed in many locations across the province.

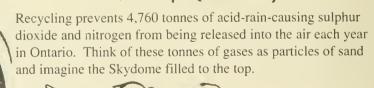


Air pollution not only hurts living things, but materials such as metal, stone, brick and paint also wear down and need to be repaired. Even our clothing is affected by pollution. For example, dirty air can make our clothes smelly!

Every time we use the car brakes, particles of rubber from the tires and asbestos from brake linings go into the air. That's air pollution, too!

Air conditioners and furnaces also contribute to pollution.

Chemicals used to heat and cool air, go into the atmosphere and are very difficult to break down.







For a copy of WhatYou Can Do to Protect the Environment, please contact Environment Ontario, 135 St. Clair AvenueWest, Toronto, Ontario, M4V 1P5 (416) 323-4321



